



George C. Marshall Space Flight Center
Marshall Space Flight Center, Alabama 35812

QD-QA-027
REVISION B

EFFECTIVE DATE: September 24, 2004

ORGANIZATIONAL INSTRUCTION

SUMMARIZING AS-BUILT CONFIGURATION

OPR(s)

**QD10, QD20, QD30,
and QD40**

OPR DESIGNEE

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DOCUMENT HISTORY LOG

Status (Baseline/ Revision/ Canceled)	Document Revision	Effective Date	Description
Revision	New Baseline	9/09/02	This OI replaces QS10-QA-008 Rev. B. When changing to the new numbering scheme outlined in QS-A-001 rev. F, there was a duplication of numbers; therefore this OI was changed to the next sequential number of QS-QA-027. Format and numbering change to implement requirements of QS-A-001 rev F.
Revision	A	08/15/03	Correct organizational code in 1.3 and 4.1. Clarify scope in 1.1. Update OI reference in 1.3 and 2.1. Add OI reference in 2.1 and delete MPG reference. Update definitions in 3. Make reference to the electronic database in 4.1 and clarify S&MA role in assuring all data entries are as correct as possible. List the ABCSS report in 7.
Revision	B	09/24/04	Update to Times New Roman 12. Change QS to QD. In 1.3, update reference to Engineering Directorate, Test Laboratory for East and West Test Areas. Revise mandatory statements per HQ Rules Review Action (CAITS: 04-DA-01-0387) in 4.1. In first paragraph of 4.1, clarify role of project planning in implementing as-built configuration summaries. Change Quality Records to Records in paragraph 8.

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SUMMARIZING AS-BUILT CONFIGURATION

1. PURPOSE, SCOPE, APPLICABILITY

1.1. Purpose - To ensure that as-built configuration installation tags are input into the Safety and Mission Assurance (S&MA) As-Built Configuration Status System (ABCSS) database so that as-built reports may be generated when requested by the applicable program/project office.

1.2. Scope - To establish instructions for summarizing the as-built configuration of hardware manufactured and assembled at MSFC.

1.3. Applicability – This procedure applies to S&MA personnel responsible for summarizing as-built configuration of flight, qualification, designated development hardware and ground support equipment. (Test facility hardware will be summarized in accordance with QD-QA-006 or Engineering Directorate, Test Laboratory instructions).

2. DOCUMENTS

2.1. Applicable Documents

QD-QA-001 Acceptance Reporting Instruction

QD-QA-006 Baselineing and Certifying Test Facilities or Test Facility Systems

2.2. Reference Documents

None

3. DEFINITIONS

3.1 WAD – Work Authorizing Document

4. INSTRUCTIONS

4.1. Upon completion of manufacturing and assembly operations, automated as-built end item summaries may be generated at any time after all parts tag database entries have been input into the As-Built Configuration Status System (ABCSS) database. When required by project planning, the as-built configuration of incremental levels of assembly shall be reviewed as applicable WAD packages are completed when ABCSS listings are available for comparison. Obvious errors, missing data, and part tag quantity overruns shall be identified to the appropriate

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inspection team for resolution. For items fabricated in 4705, the delegated QA representative for the Fabrication Services Contractor shall assure the as-built configuration is properly documented and forwarded to the S&MA Quality Assurance Records Center (QARC). If the hardware is to remain at MSFC for test, inspection personnel assigned to the test activity shall ensure that the as-built configuration is maintained.

Unless otherwise directed by the program/project office in writing, inspection personnel shall withhold shipment of the end item hardware if an end item as-built summary has been requested but not generated.

As-built end item summaries shall only be provided in response to written requests from program/project offices. As-built end item summaries require advance coordination with S&MA and sufficient time allocated in the program/project schedule for work order closeout, part tags turn in, data entry and report generation. If an as-built report is not requested, S&MA has the option not to enter the installation parts tags into the computer database but will simply file the hard copy tags for retention. The assigned S&MA Lead should inform the applicable program or project of the need to provide S&MA a written request for an ABCSS listing during initial Collaborative Work Commitment (CWC) estimation and obtain the written request not later than the Preliminary Design Review (PDR) milestone or the purchase order initiation of long lead items (whichever occurs first).

5. NOTES

5.1. OI Replacement - This instruction replaces QS-QA-027, Revision A, Summarizing As-Built Configuration, dated August 15, 2003.

6. SAFETY PRECAUTIONS AND WARNING NOTES

None

7. APPENDICES, DATA, REPORTS, AND FORMS

None

8. RECORDS

None

9. TOOLS, EQUIPMENT, AND MATERIALS

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None

10. PERSONNEL TRAINING AND CERTIFICATION

None

11. FLOW DIAGRAM

None